

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101722\
 Data File : VL039722.D
 Acq On : 17 Oct 2022 16:48
 Operator : SY/AP
 Sample : N5169-03DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Quant Time: Oct 18 05:27:32 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Oct 18 05:23:57 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.230	49	1017320	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.687	114	2621089	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.497	117	2213483	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.809	95	1672812	10.124	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.200%

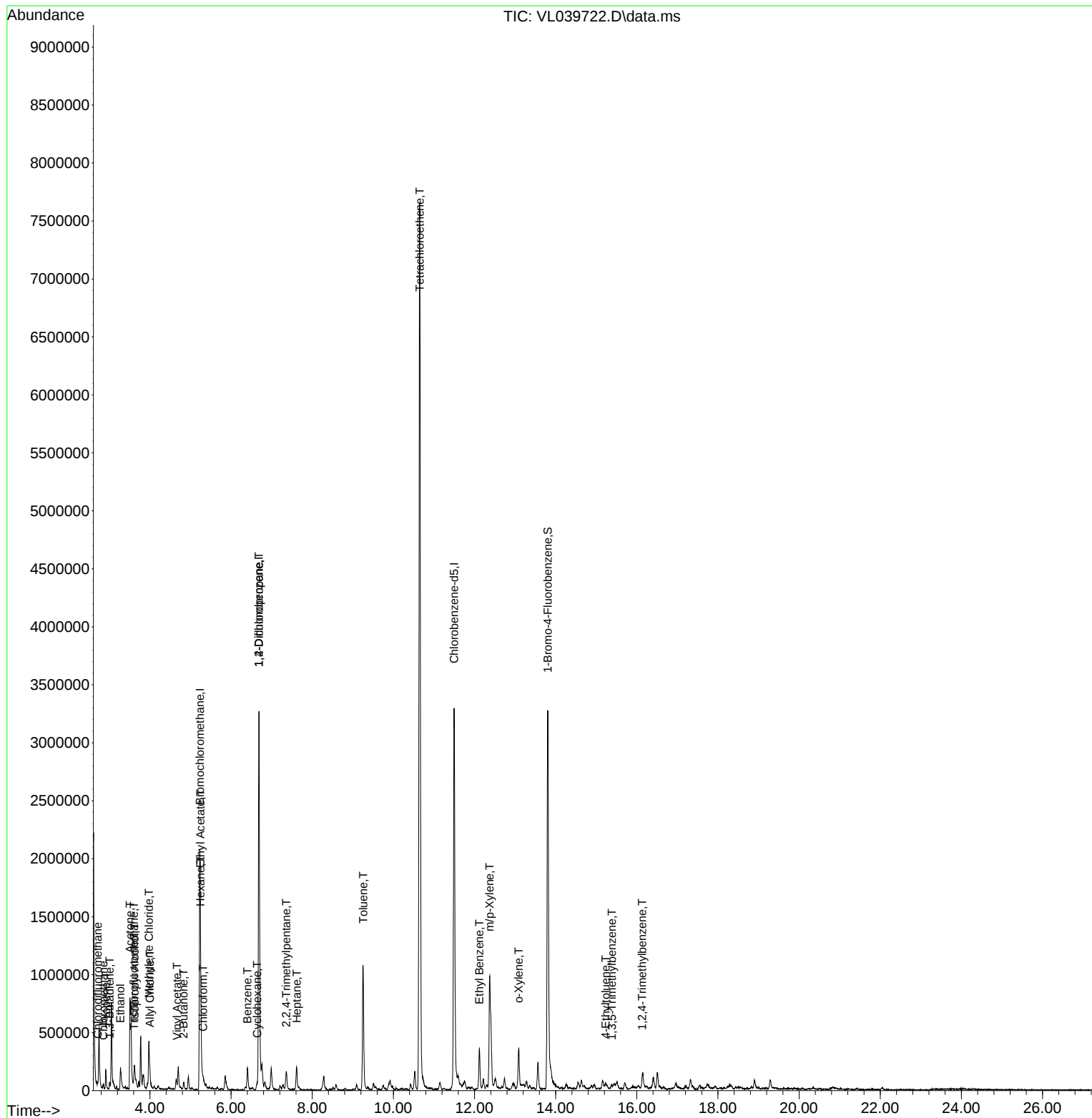
Target Compounds						Qvalue
3) Chlorodifluoromethane	2.716	51	75028	0.621	ppbv #	78
4) Chloromethane	2.858	50	29286	0.402	ppbv	93
9) Propene	2.912	41	42311	0.767	ppbv	89
10) Heptane	3.619	43	74924	0.582	ppbv	95
11) Trichlorofluoromethane	3.603	101	29795	0.204	ppbv #	80
13) Ethanol	3.276	45	213944	50.925	ppbv	78
15) Acetone	3.507	43	1051650	9.290	ppbv	94
16) 1,3-Butadiene	3.005	39	17285	0.301	ppbv #	69
19) Isopropyl Alcohol	3.623	45	210006	3.639	ppbv #	1
20) Methylene Chloride	3.976	84	140093	2.677	ppbv	98
21) Allyl Chloride	4.002	41	6988	0.091	ppbv #	1
23) Vinyl Acetate	4.671	43	5759	0.113	ppbv #	69
25) Ethyl Acetate	5.243	43	100078	0.405	ppbv #	83
26) Hexane	5.250	57	221316	2.113	ppbv #	54
29) Chloroform	5.308	83	11471	0.076	ppbv	100
30) Cyclohexane	6.642	84	4062	0.050	ppbv #	1
34) 2-Butanone	4.829	43	27817	0.216	ppbv #	23
36) Benzene	6.404	78	150465	0.751	ppbv	97
39) 1,2-Dichloropropane	6.687	63	630657	8.150	ppbv #	25
44) 2,2,4-Trimethylpentane	7.359	57	58208	0.169	ppbv #	18
52) Tetrachloroethene	10.648	164	2054074	26.868	ppbv	96
53) Toluene	9.256	91	840887	3.773	ppbv	100
58) Ethyl Benzene	12.121	91	288571	1.131	ppbv	98
59) m/p-Xylene	12.375	91	1063700	4.683	ppbv	96
60) o-Xylene	13.092	91	272523	1.256	ppbv	98
72) 4-Ethyltoluene	15.230	105	16268	0.066	ppbv #	53
73) 1,3,5-Trimethylbenzene	15.384	105	21841	0.096	ppbv #	81
74) 1,2,4-Trimethylbenzene	16.134	105	56075	0.221	ppbv #	66

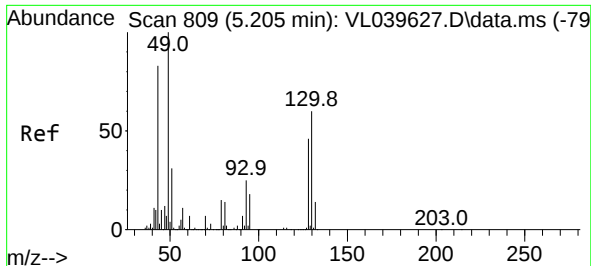
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Oct 18 05:23:57 2022
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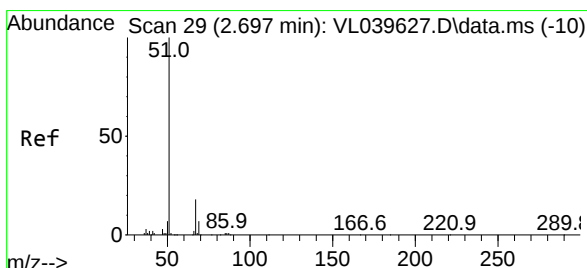
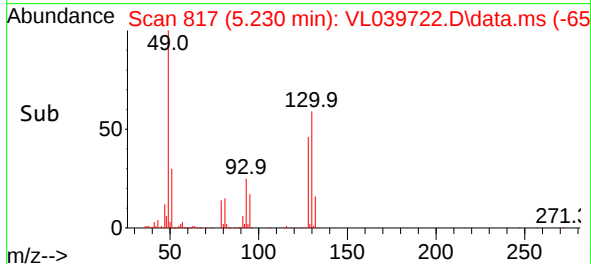
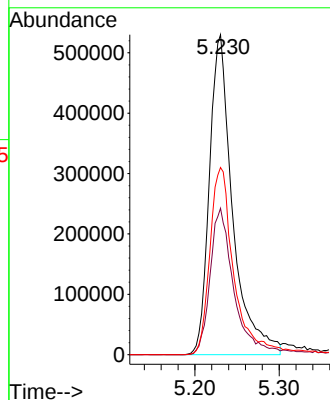
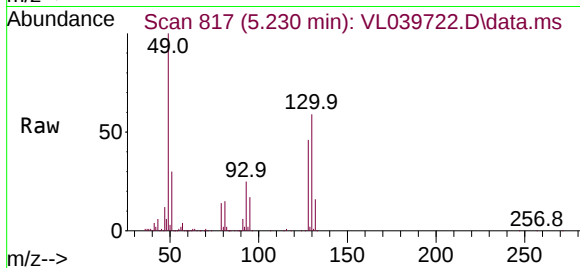




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.230 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL039722.D
Acq: 17 Oct 2022 16:48

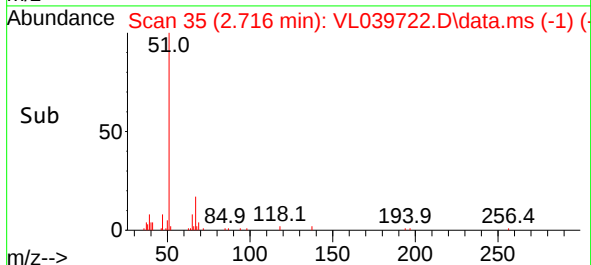
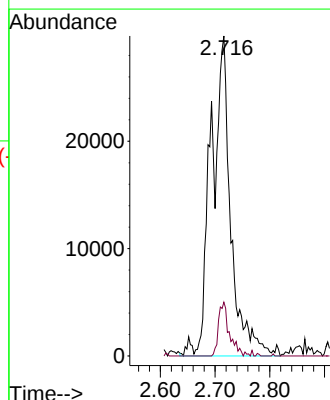
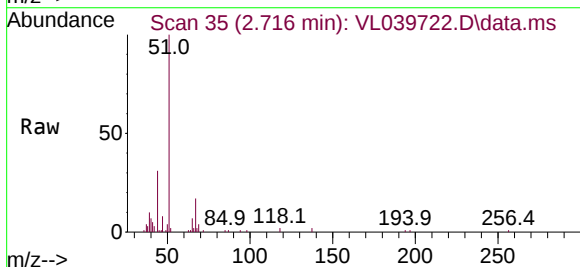
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

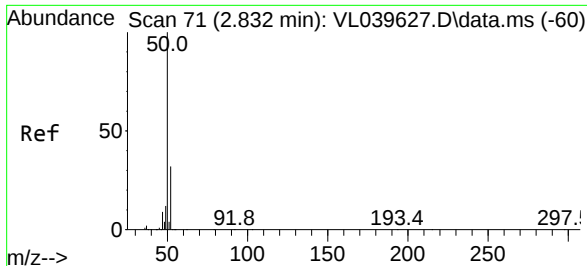
Tgt Ion: 49 Resp: 1017320
Ion Ratio Lower Upper
49 100
128 48.6 26.7 80.0
130 63.2 34.3 102.8



#3
Chlorodifluoromethane
Concen: 0.621 ppbv
RT: 2.716 min Scan# 35
Delta R.T. 0.003 min
Lab File: VL039722.D
Acq: 17 Oct 2022 16:48

Tgt Ion: 51 Resp: 75028
Ion Ratio Lower Upper
51 100
67 9.4 15.7 23.5





#4
Chloromethane
Concen: 0.402 ppbv
RT: 2.858 min Scan# 71
Delta R.T. 0.006 min
Lab File: VL039722.D
Acq: 17 Oct 2022 16:48

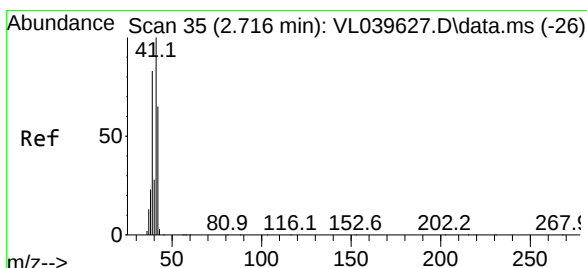
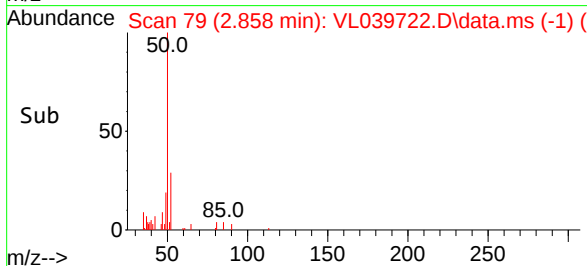
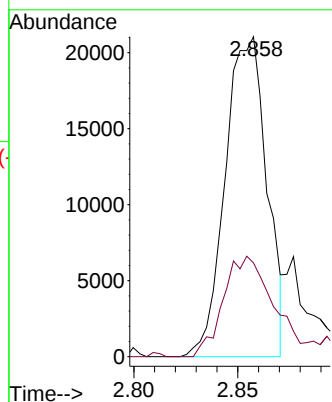
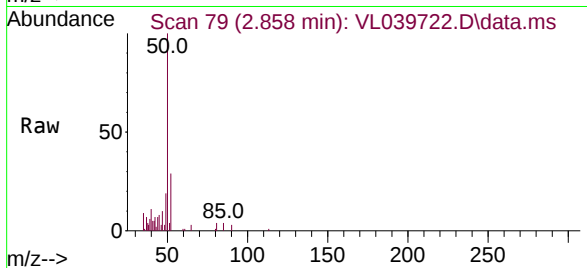
Instrument :

MSVOA_L

ClientSampleId :

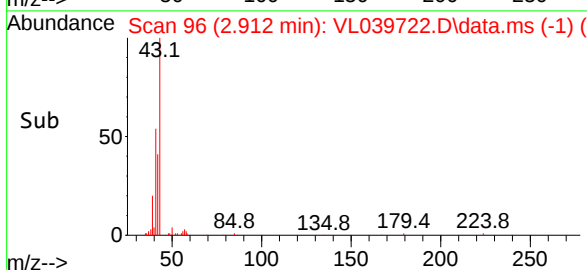
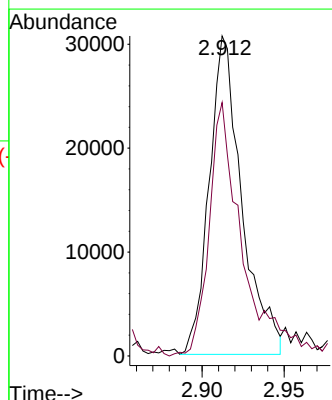
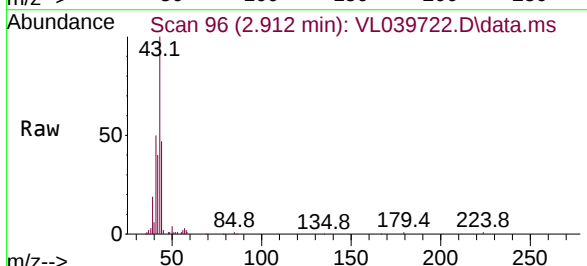
IA1DUP

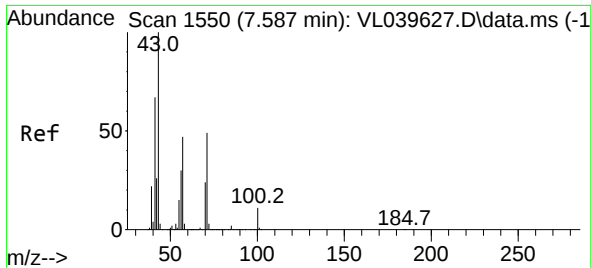
Tgt Ion: 50 Resp: 29286
Ion Ratio Lower Upper
50 100
52 29.3 26.5 39.7



#9
Propene
Concen: 0.767 ppbv
RT: 2.912 min Scan# 96
Delta R.T. 0.180 min
Lab File: VL039722.D
Acq: 17 Oct 2022 16:48

Tgt Ion: 41 Resp: 42311
Ion Ratio Lower Upper
41 100
42 78.3 55.2 82.8





#10

Heptane

Concen: 0.582 ppbv

RT: 7.619 min Scan# 11

Delta R.T. 0.010 min

Lab File: VL039722.D

Acq: 17 Oct 2022 16:48

Instrument :

MSVOA_L

ClientSampleId :

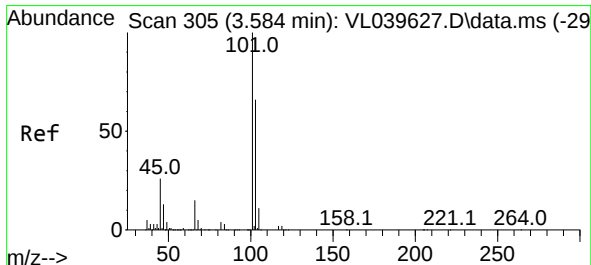
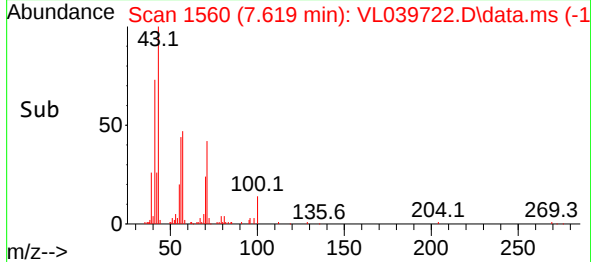
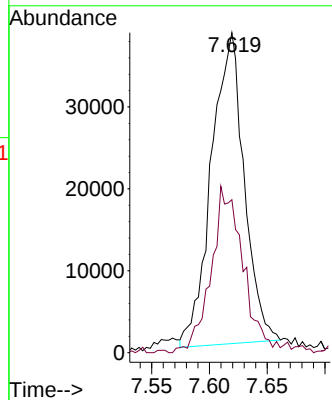
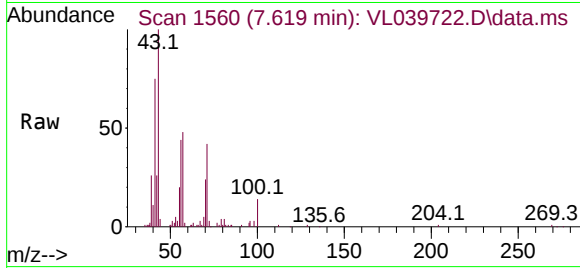
IA1DUP

Tgt Ion: 43 Resp: 74924

Ion Ratio Lower Upper

43 100

57 54.1 40.5 60.7



#11

Trichlorofluoromethane

Concen: 0.204 ppbv

RT: 3.603 min Scan# 311

Delta R.T. 0.003 min

Lab File: VL039722.D

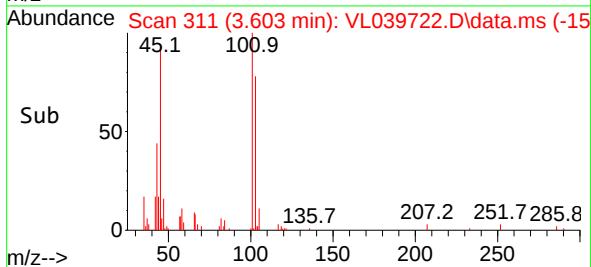
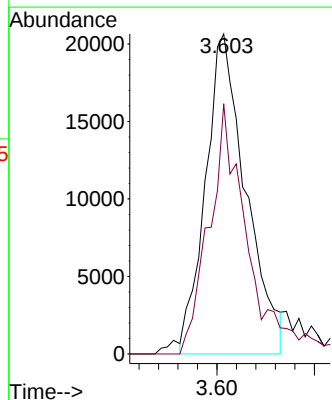
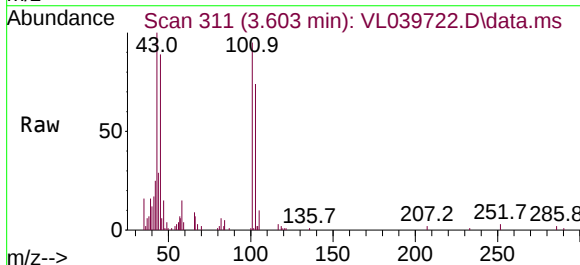
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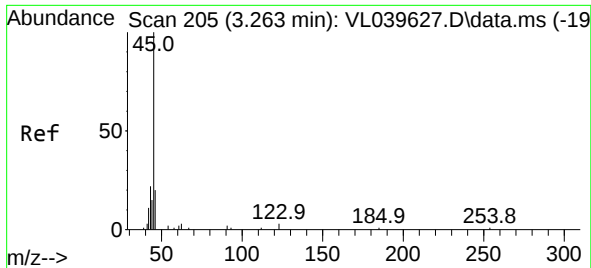
Tgt Ion:101 Resp: 29795

Ion Ratio Lower Upper

101 100

103 80.8 51.8 77.8#

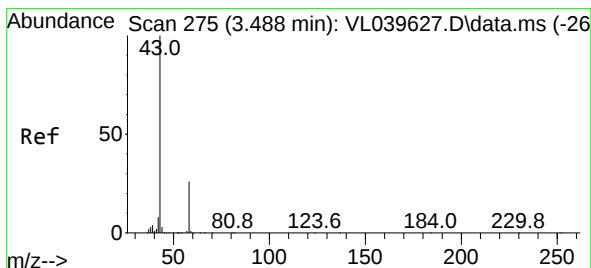
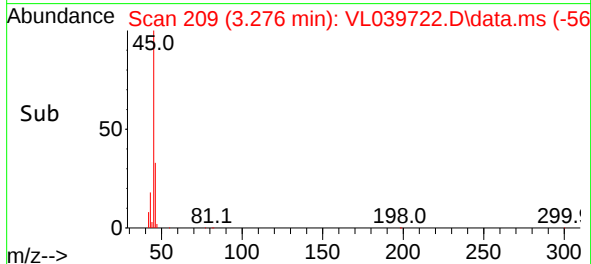
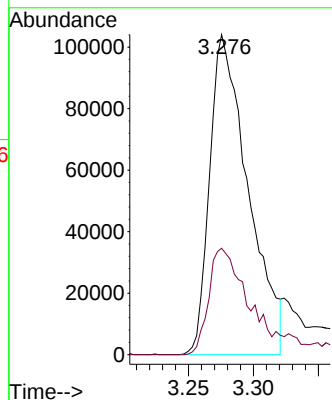
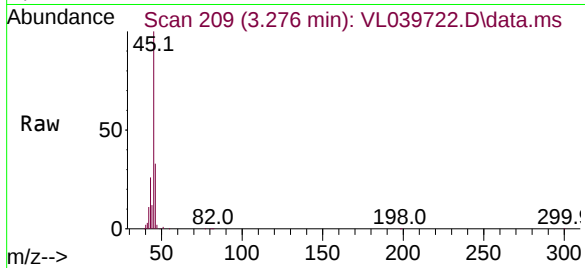




#13
 Ethanol
 Concen: 50.925 ppbv
 RT: 3.276 min Scan# 205
 Delta R.T. -0.006 min
 Lab File: VL039722.D
 Acq: 17 Oct 2022 16:48

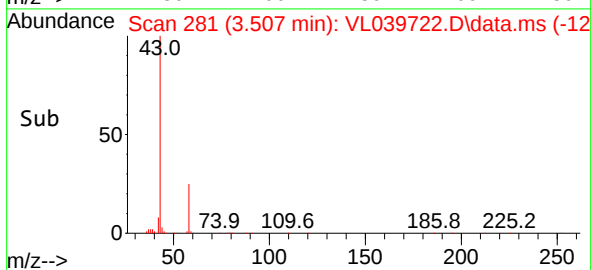
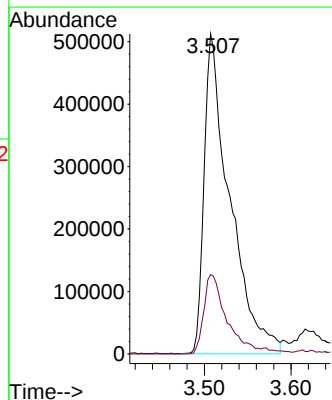
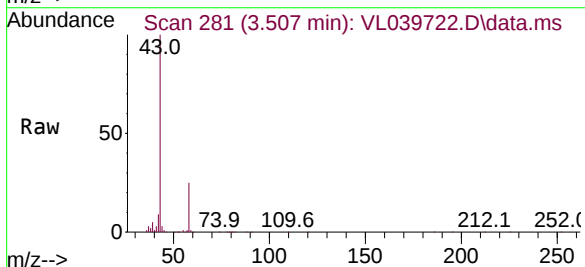
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

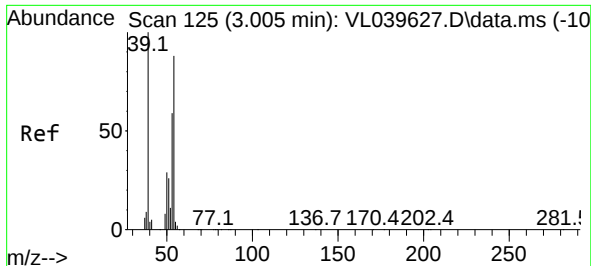
Tgt Ion: 45 Resp: 213944
 Ion Ratio Lower Upper
 45 100
 46 41.2 22.8 91.2



#15
 Acetone
 Concen: 9.290 ppbv
 RT: 3.507 min Scan# 281
 Delta R.T. 0.003 min
 Lab File: VL039722.D
 Acq: 17 Oct 2022 16:48

Tgt Ion: 43 Resp: 1051650
 Ion Ratio Lower Upper
 43 100
 58 23.1 21.0 31.6





#16

1,3-Butadiene

Concen: 0.301 ppbv

RT: 3.005 min Scan# 11

Delta R.T. -0.016 min

Lab File: VL039722.D

Acq: 17 Oct 2022 16:48

Instrument :

MSVOA_L

ClientSampleId :

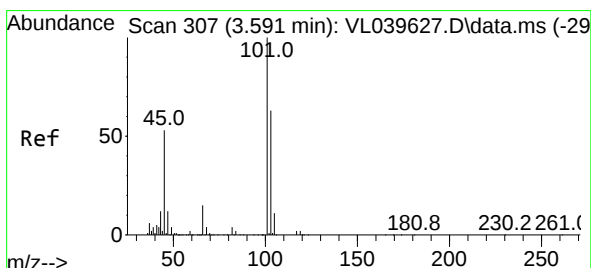
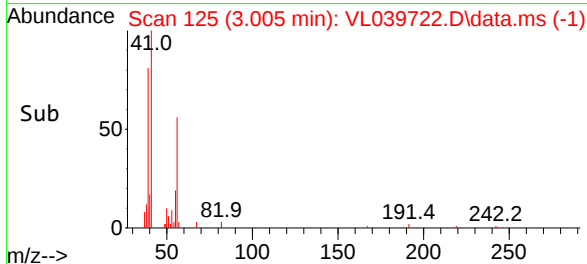
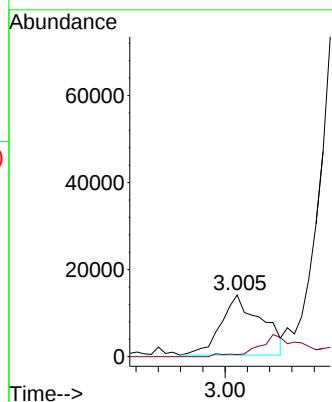
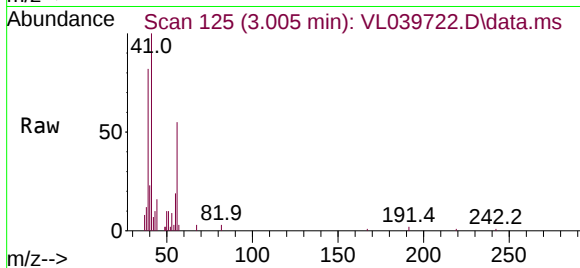
IA1DUP

Tgt Ion: 39 Resp: 17285

Ion Ratio Lower Upper

39 100

54 51.9 63.7 95.5#



#19

Isopropyl Alcohol

Concen: 3.639 ppbv

RT: 3.623 min Scan# 317

Delta R.T. 0.010 min

Lab File: VL039722.D

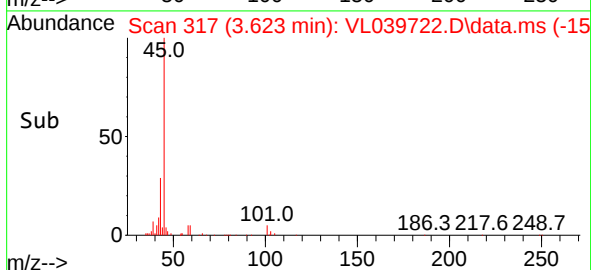
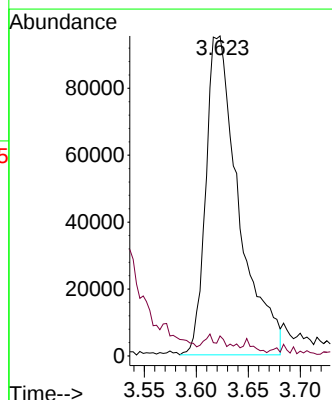
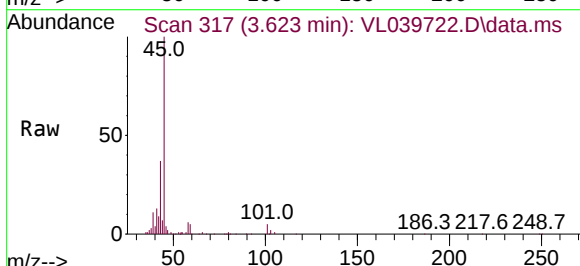
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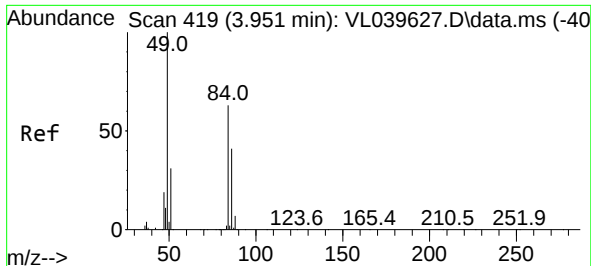
Tgt Ion: 45 Resp: 210006

Ion Ratio Lower Upper

45 100

58 115.7 3.2 4.8#



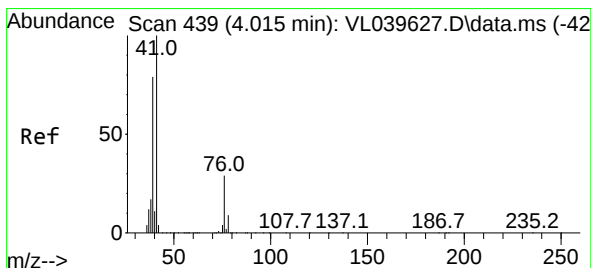
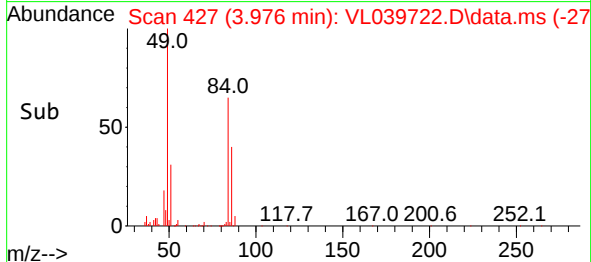
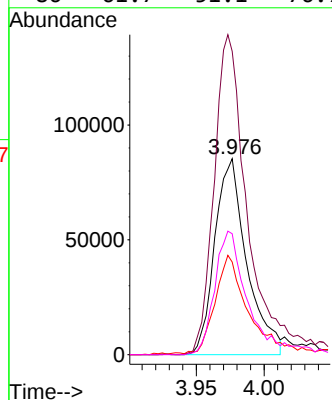
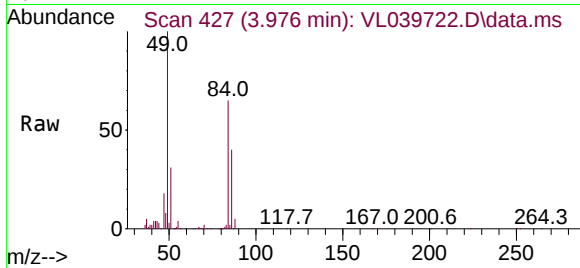


#20
Methylene Chloride
Concen: 2.677 ppbv
RT: 3.976 min Scan# 419
Delta R.T. 0.006 min
Lab File: VL039722.D
Acq: 17 Oct 2022 16:48

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 84 Resp: 140093

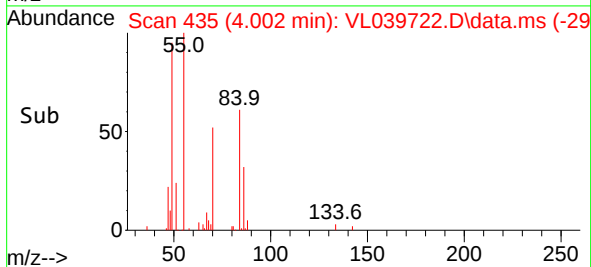
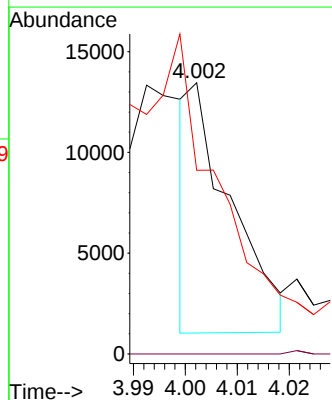
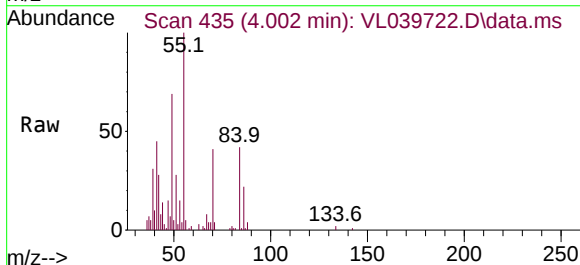
Ion	Ratio	Lower	Upper
84	100		
49	154.8	123.1	184.7
51	46.4	34.4	51.6
86	61.7	51.1	76.7

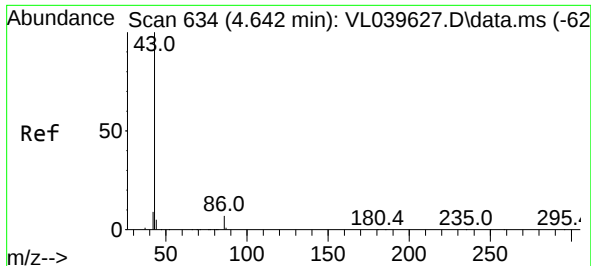


#21
Allyl Chloride
Concen: 0.091 ppbv
RT: 4.002 min Scan# 435
Delta R.T. -0.032 min
Lab File: VL039722.D
Acq: 17 Oct 2022 16:48

Tgt Ion: 41 Resp: 6988

Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.4	36.6#
39	369.6	63.5	95.3#

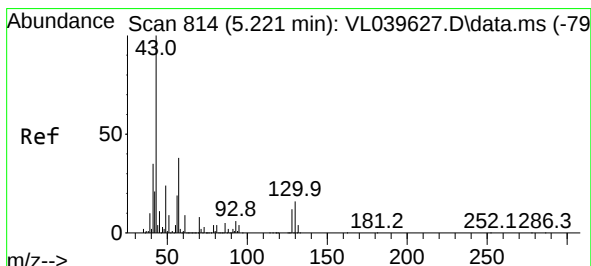
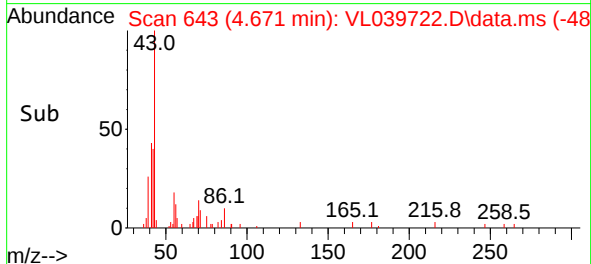
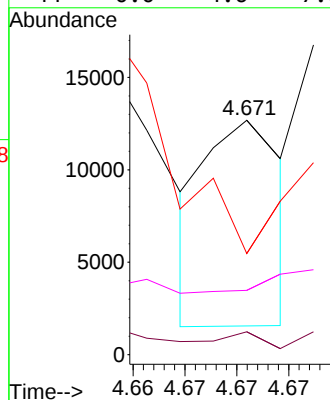
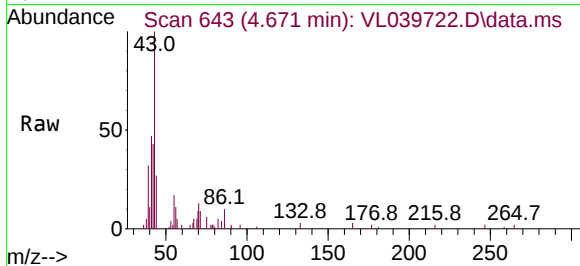




#23
 Vinyl Acetate
 Concen: 0.113 ppbv
 RT: 4.671 min Scan# 643
 Delta R.T. 0.010 min
 Lab File: VL039722.D
 Acq: 17 Oct 2022 16:48

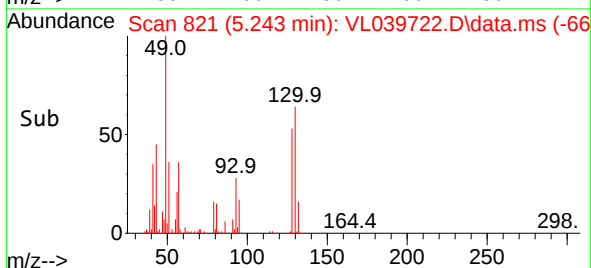
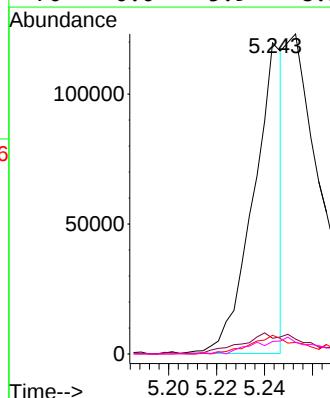
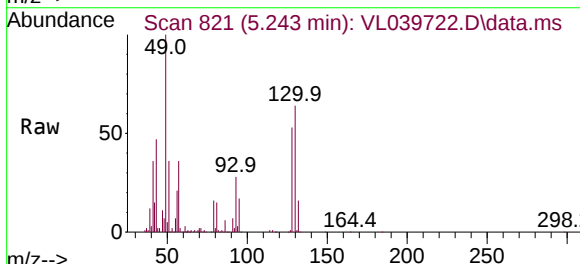
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

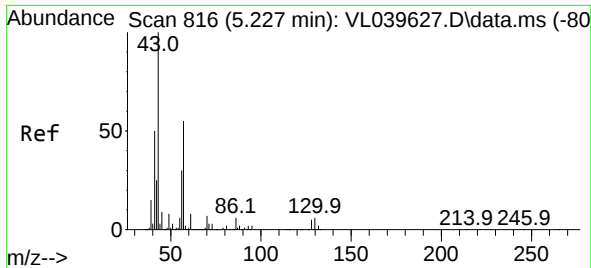
Tgt Ion:	43	Resp:	5759
Ion	Ratio	Lower	Upper
43	100		
86	23.4	5.0	7.6#
42	0.0	7.7	11.5#
44	0.0	4.6	7.0#



#25
 Ethyl Acetate
 Concen: 0.405 ppbv
 RT: 5.243 min Scan# 821
 Delta R.T. 0.003 min
 Lab File: VL039722.D
 Acq: 17 Oct 2022 16:48

Tgt Ion:	43	Resp:	100078
Ion	Ratio	Lower	Upper
43	100		
45	18.4	8.2	12.4#
61	13.4	8.3	12.5#
70	0.0	5.9	8.9#

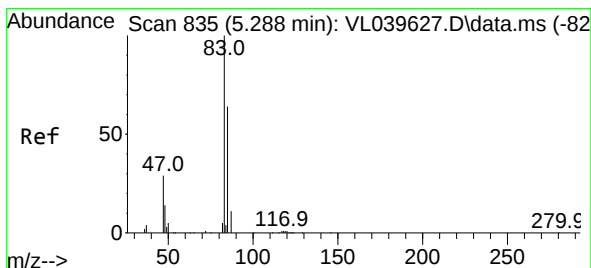
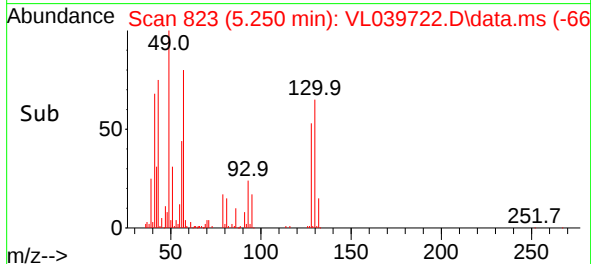
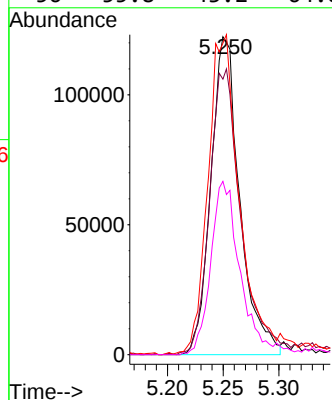
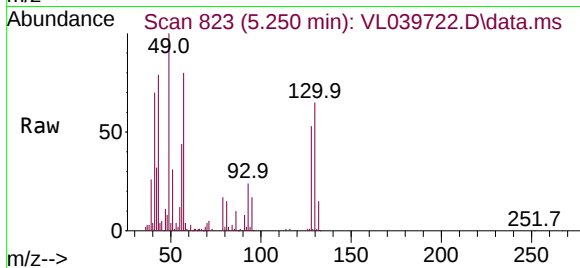




#26
Hexane
Concen: 2.113 ppbv
RT: 5.250 min Scan# 816
Delta R.T. 0.003 min
Lab File: VL039722.D
Acq: 17 Oct 2022 16:48

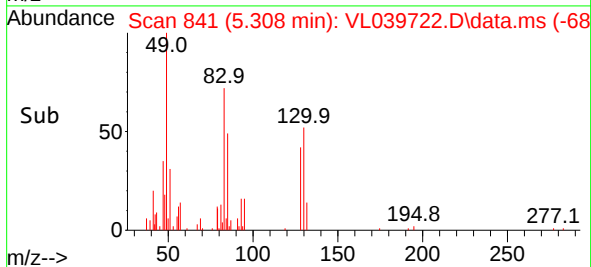
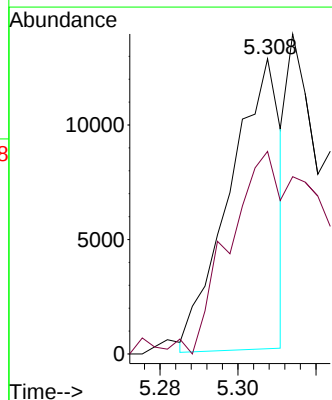
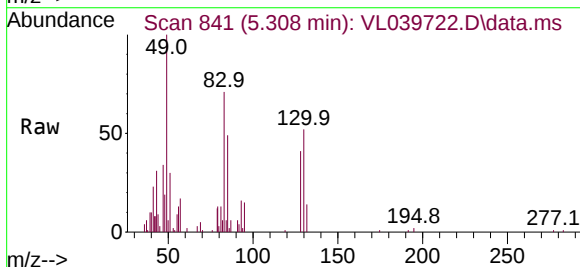
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

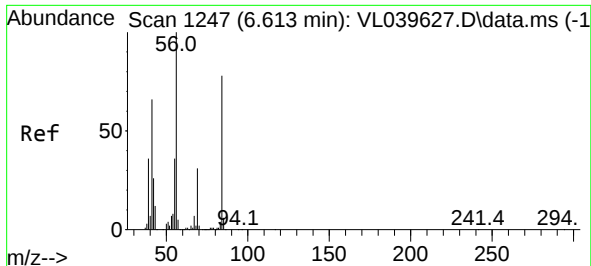
Tgt Ion: 57 Resp: 221316
Ion Ratio Lower Upper
57 100
41 97.3 76.9 115.3
43 115.0 191.0 286.6#
56 55.8 43.2 64.8



#29
Chloroform
Concen: 0.076 ppbv
RT: 5.308 min Scan# 841
Delta R.T. -0.000 min
Lab File: VL039722.D
Acq: 17 Oct 2022 16:48

Tgt Ion: 83 Resp: 11471
Ion Ratio Lower Upper
83 100
85 66.2 52.8 79.2

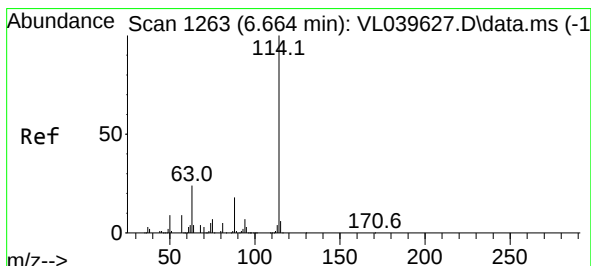
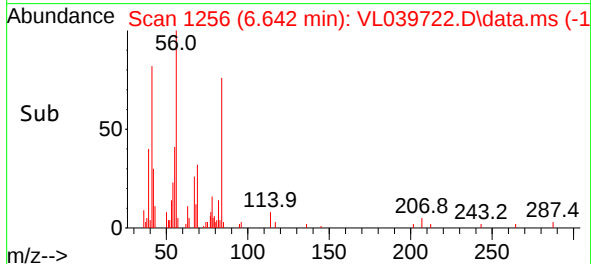
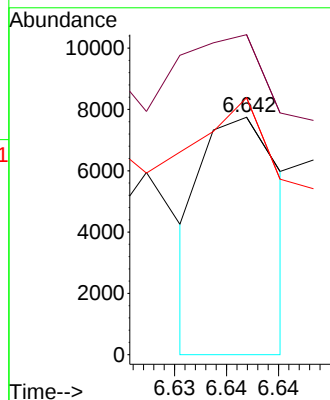
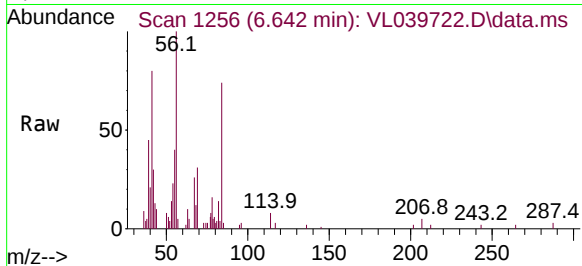




#30
Cyclohexane
Concen: 0.050 ppbv
RT: 6.642 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL039722.D
Acq: 17 Oct 2022 16:48

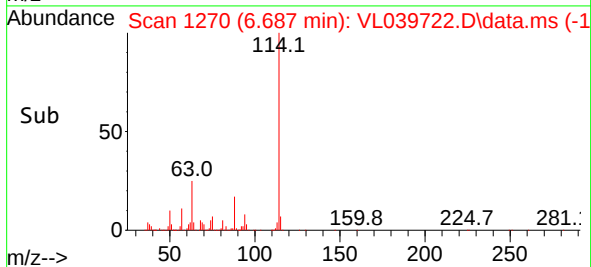
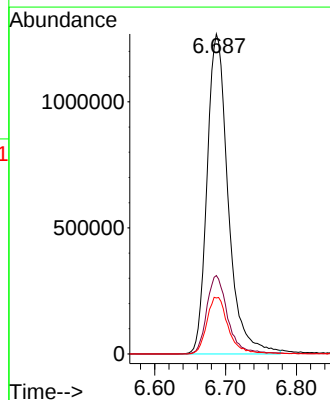
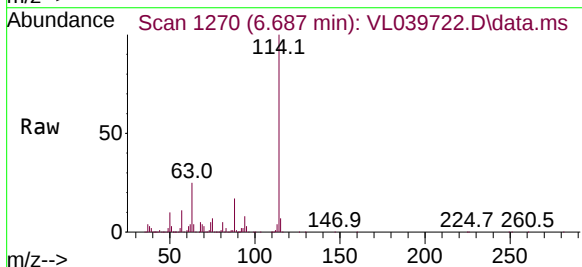
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

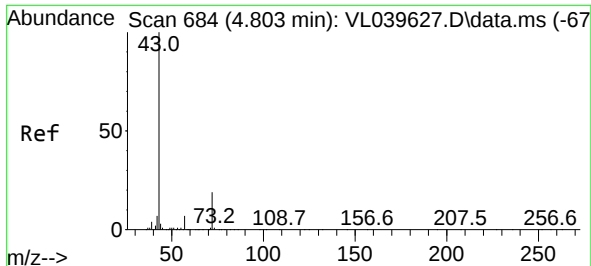
Tgt Ion: 84 Resp: 4062
Ion Ratio Lower Upper
84 100
56 521.7 107.7 161.5#
41 455.1 67.7 101.5#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.687 min Scan# 1270
Delta R.T. -0.000 min
Lab File: VL039722.D
Acq: 17 Oct 2022 16:48

Tgt Ion: 114 Resp: 2621089
Ion Ratio Lower Upper
114 100
63 24.8 20.2 30.4
88 18.3 14.5 21.7

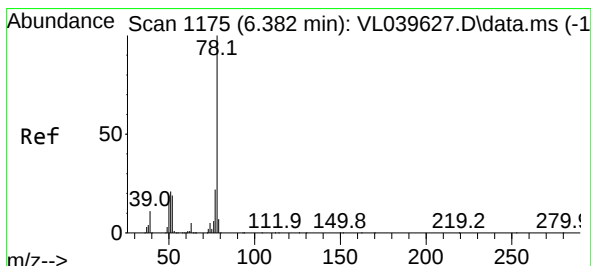
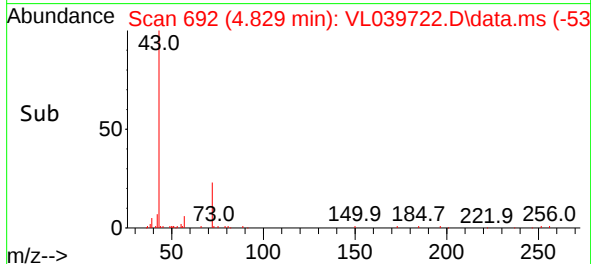
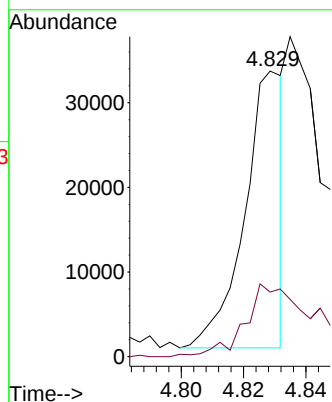
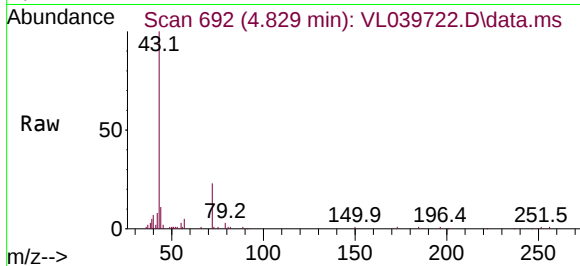




#34
2-Butanone
Concen: 0.216 ppbv
RT: 4.829 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL039722.D
Acq: 17 Oct 2022 16:48

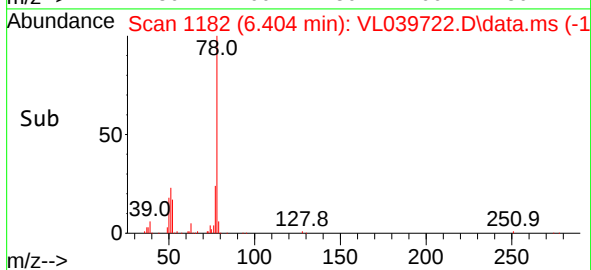
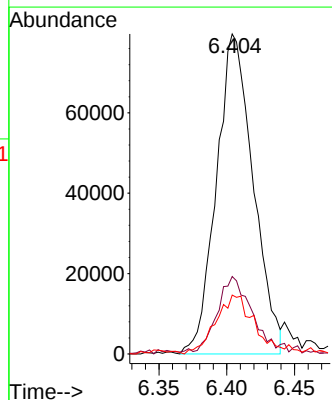
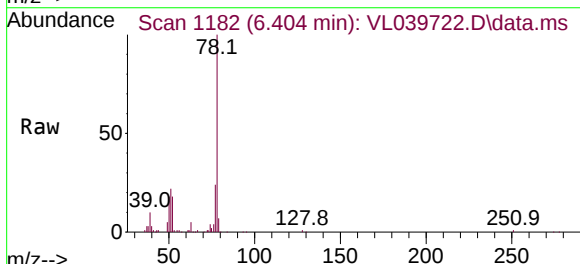
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

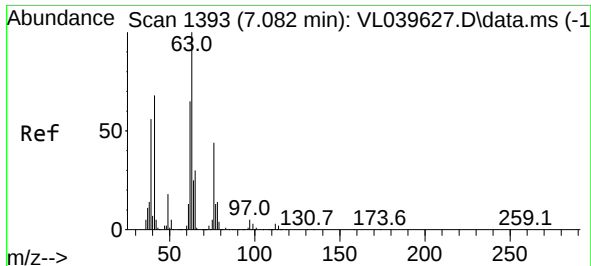
Tgt Ion: 43 Resp: 27817
Ion Ratio Lower Upper
43 100
72 59.1 17.9 26.9#



#36
Benzene
Concen: 0.751 ppbv
RT: 6.404 min Scan# 1182
Delta R.T. 0.003 min
Lab File: VL039722.D
Acq: 17 Oct 2022 16:48

Tgt Ion: 78 Resp: 150465
Ion Ratio Lower Upper
78 100
77 23.6 20.3 30.5
50 17.9 15.5 23.3





#39

1,2-Dichloropropane

Concen: 8.150 ppbv

RT: 6.687 min Scan# 1

Delta R.T. -0.418 min

Lab File: VL039722.D

Acq: 17 Oct 2022 16:48

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

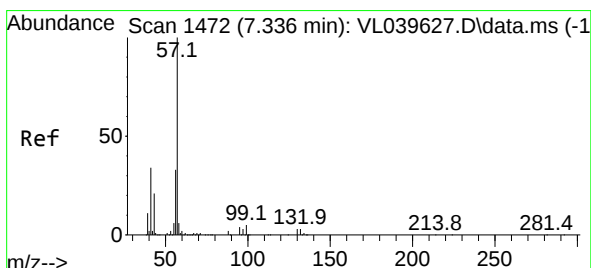
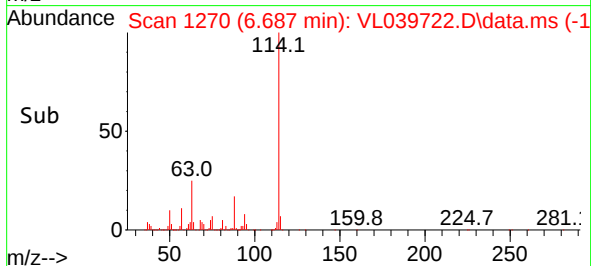
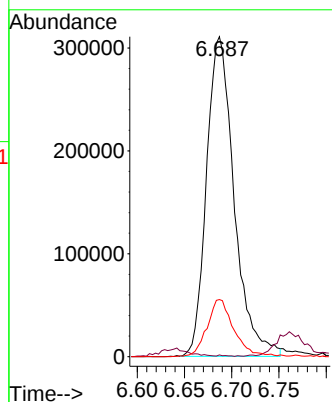
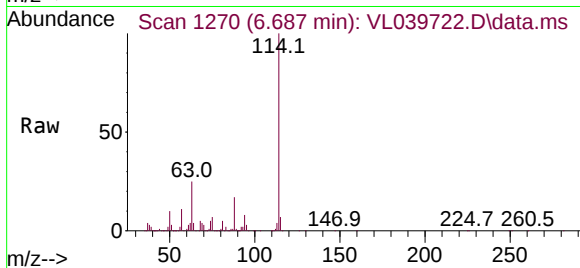
Tgt Ion: 63 Resp: 630657

Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

62 17.6 51.4 77.0#



#44

2,2,4-Trimethylpentane

Concen: 0.169 ppbv

RT: 7.359 min Scan# 1479

Delta R.T. 0.003 min

Lab File: VL039722.D

Acq: 17 Oct 2022 16:48

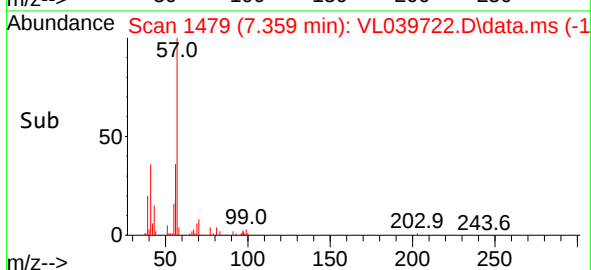
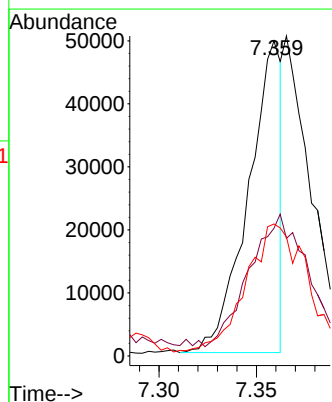
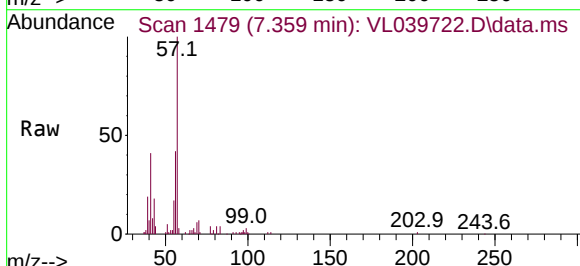
Tgt Ion: 57 Resp: 58208

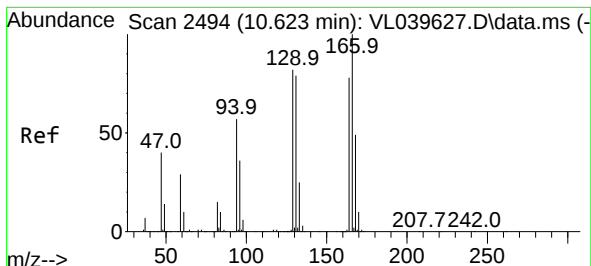
Ion Ratio Lower Upper

57 100

41 0.0 27.4 41.2#

56 88.6 24.5 36.7#

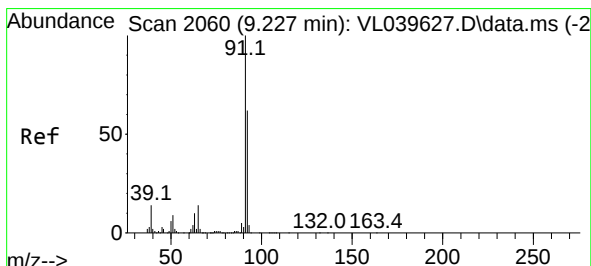
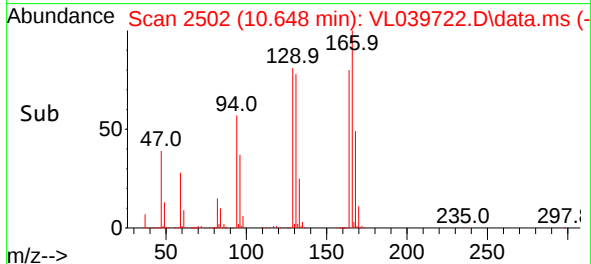
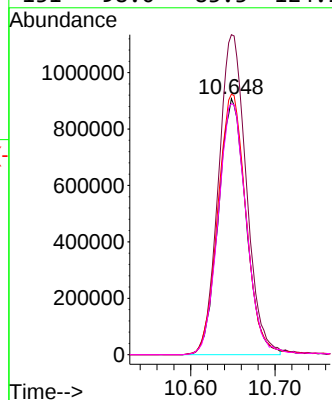
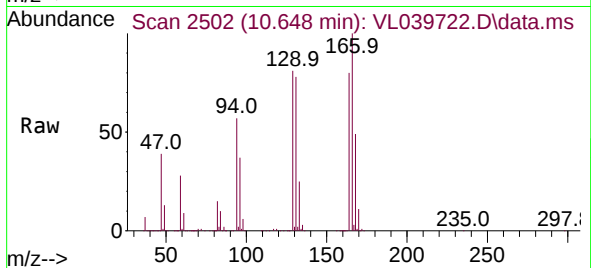




#52
Tetrachloroethene
Concen: 26.868 ppbv
RT: 10.648 min Scan# 20502
Delta R.T. 0.003 min
Lab File: VL039722.D
Acq: 17 Oct 2022 16:48

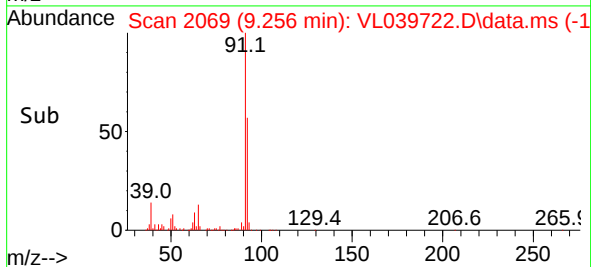
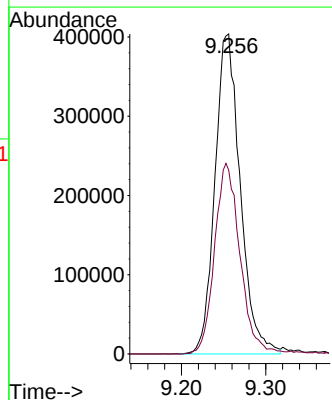
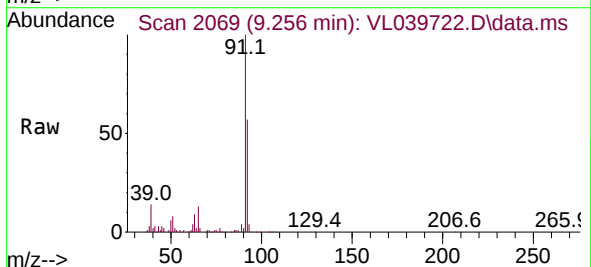
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

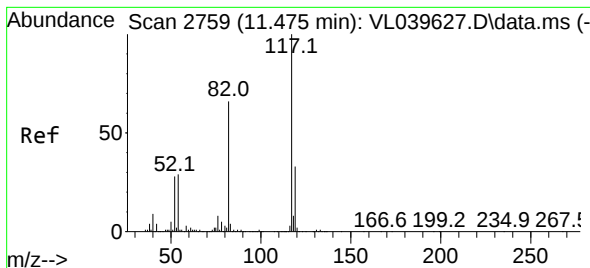
Tgt Ion:164 Resp: 2054074
Ion Ratio Lower Upper
164 100
166 125.0 102.2 153.2
129 101.7 85.8 128.8
131 98.0 83.3 124.9



#53
Toluene
Concen: 3.773 ppbv
RT: 9.256 min Scan# 2069
Delta R.T. 0.006 min
Lab File: VL039722.D
Acq: 17 Oct 2022 16:48

Tgt Ion: 91 Resp: 840887
Ion Ratio Lower Upper
91 100
92 60.5 48.2 72.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.497 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL039722.D

Acq: 17 Oct 2022 16:48

Instrument :

MSVOA_1

ClientSampleId :

IA1DUP

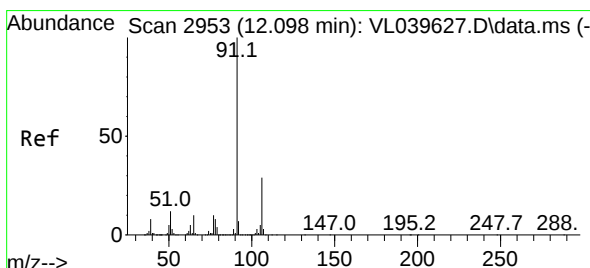
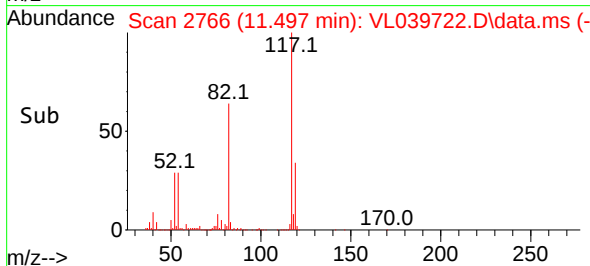
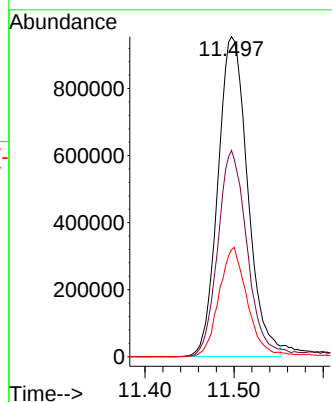
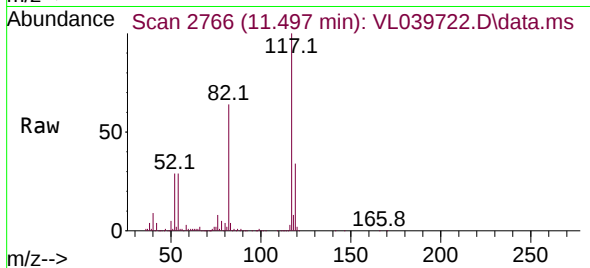
Tgt Ion:117 Resp: 2213483

Ion Ratio Lower Upper

117 100

82 66.5 50.8 76.2

119 33.8 24.1 36.1



#58

Ethyl Benzene

Concen: 1.131 ppbv

RT: 12.121 min Scan# 2960

Delta R.T. 0.006 min

Lab File: VL039722.D

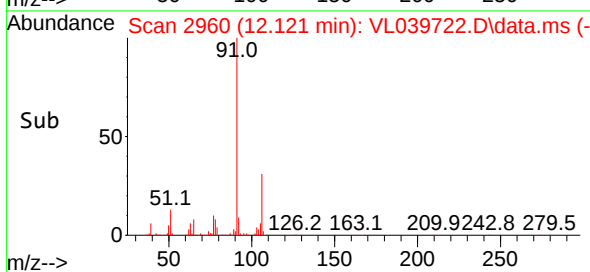
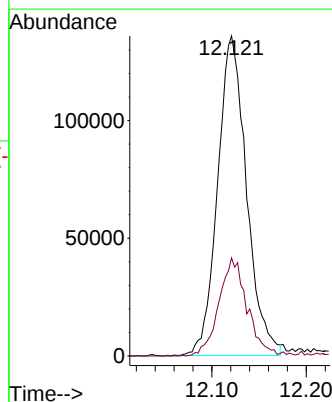
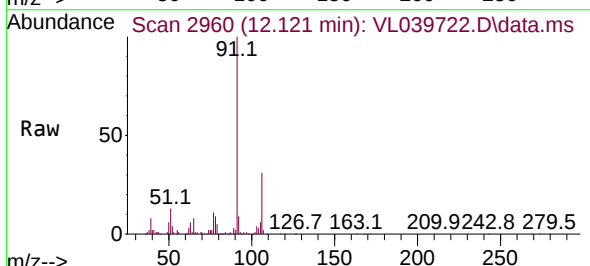
Acq: 17 Oct 2022 16:48

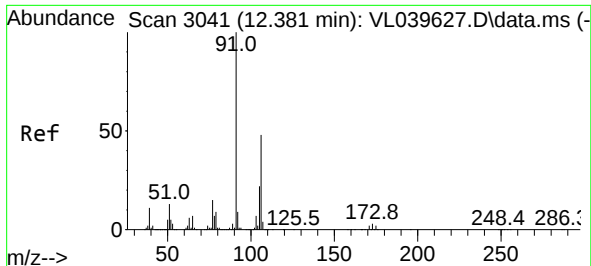
Tgt Ion: 91 Resp: 288571

Ion Ratio Lower Upper

91 100

106 30.7 25.4 38.0





#59

m/p-Xylene

Concen: 4.683 ppbv

RT: 12.375 min Scan# 3041

Delta R.T. -0.026 min

Lab File: VL039722.D

Acq: 17 Oct 2022 16:48

Instrument :

MSVOA_L

ClientSampleId :

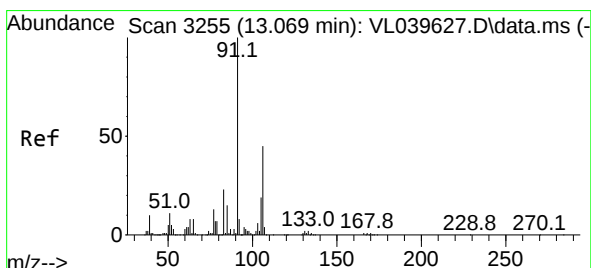
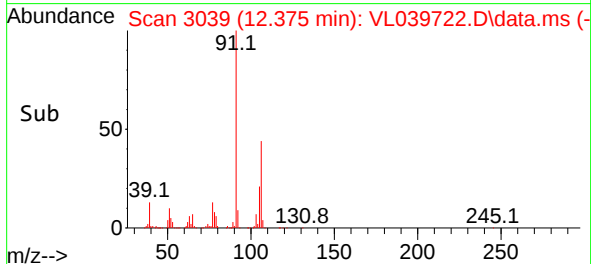
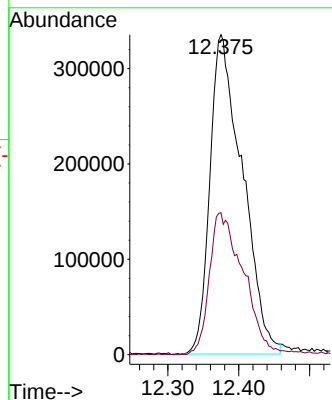
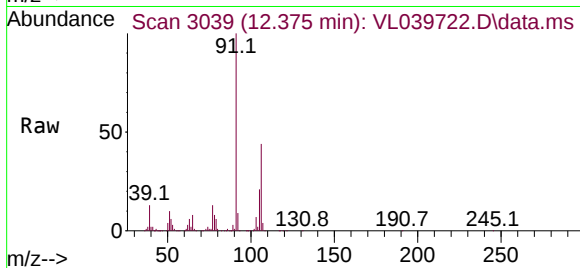
IA1DUP

Tgt Ion: 91 Resp: 1063700

Ion Ratio Lower Upper

91 100

106 47.0 35.4 53.2



#60

o-Xylene

Concen: 1.256 ppbv

RT: 13.092 min Scan# 3262

Delta R.T. 0.006 min

Lab File: VL039722.D

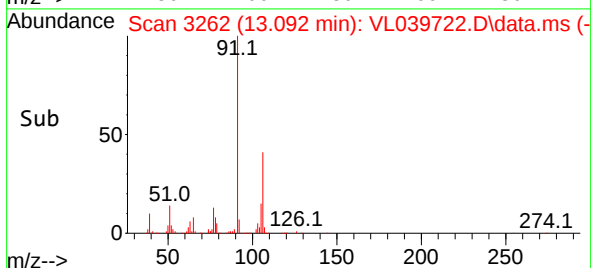
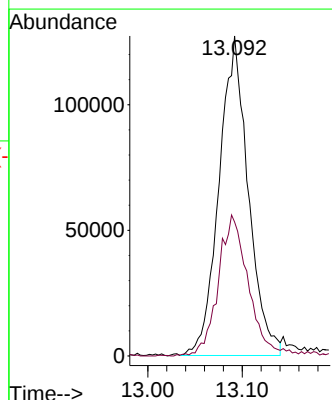
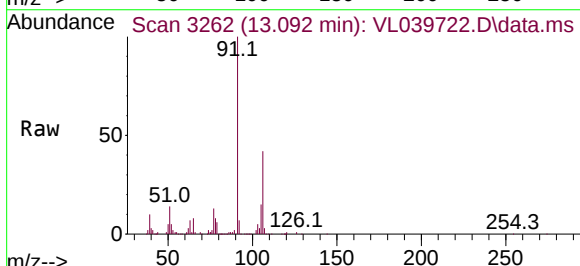
Acq: 17 Oct 2022 16:48

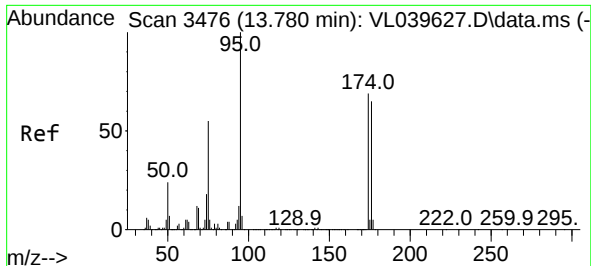
Tgt Ion: 91 Resp: 272523

Ion Ratio Lower Upper

91 100

106 46.4 22.4 67.3

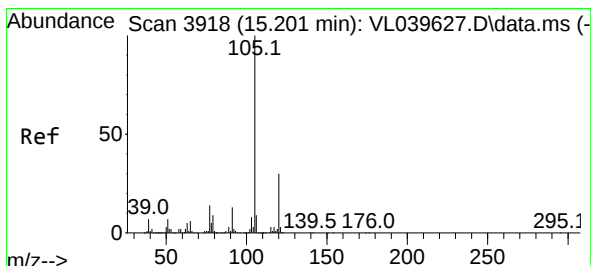
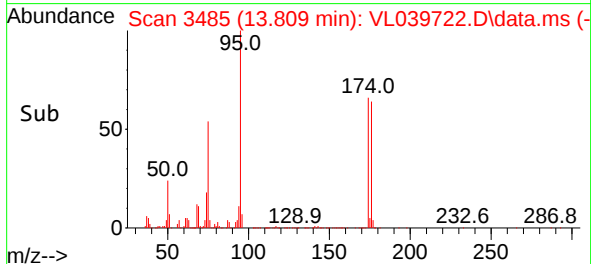
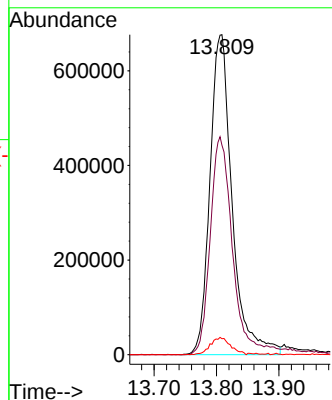
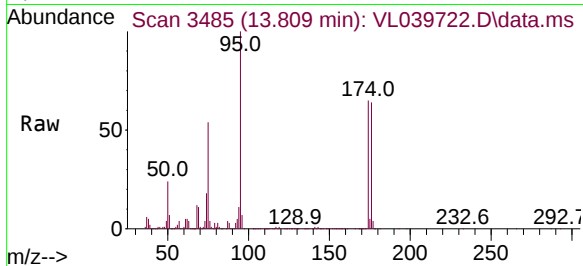




#68
1-Bromo-4-Fluorobenzene
Concen: 10.124 ppbv
RT: 13.809 min Scan# 3476
Delta R.T. 0.010 min
Lab File: VL039722.D
Acq: 17 Oct 2022 16:48

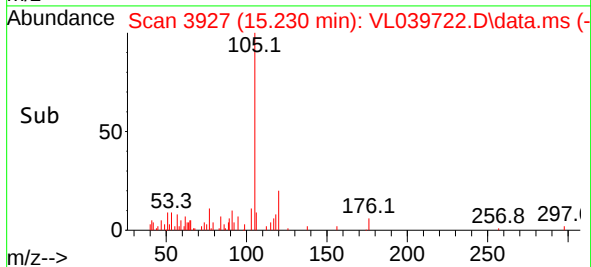
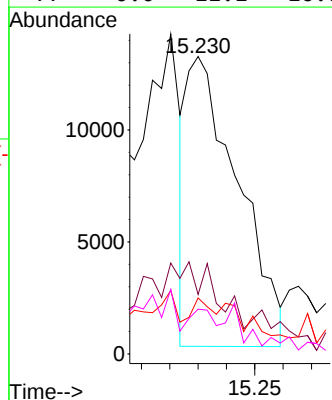
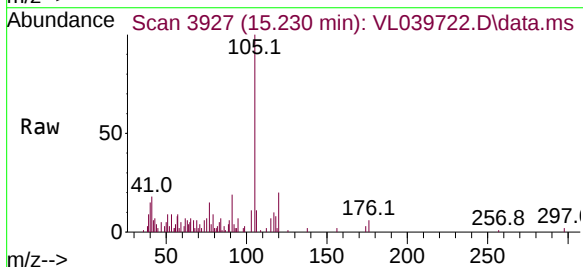
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

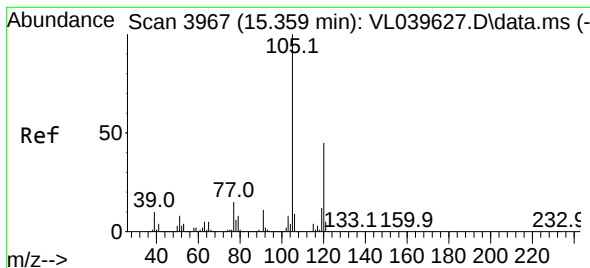
Tgt Ion: 95 Resp: 1672812
Ion Ratio Lower Upper
95 100
174 71.4 55.9 83.9
175 5.2 4.2 6.4



#72
4-Ethyltoluene
Concen: 0.066 ppbv
RT: 15.230 min Scan# 3927
Delta R.T. 0.010 min
Lab File: VL039722.D
Acq: 17 Oct 2022 16:48

Tgt Ion: 105 Resp: 16268
Ion Ratio Lower Upper
105 100
120 62.6 24.2 36.2#
91 0.0 10.2 15.4#
77 0.0 11.1 16.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.096 ppbv

RT: 15.384 min Scan# 3967

Delta R.T. 0.006 min

Lab File: VL039722.D

Acq: 17 Oct 2022 16:48

Instrument :

MSVOA_L

ClientSampleId :

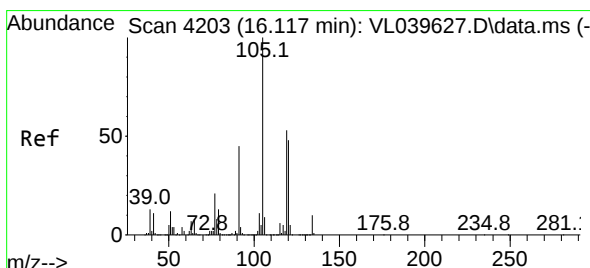
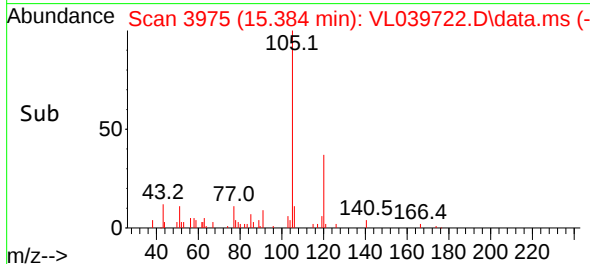
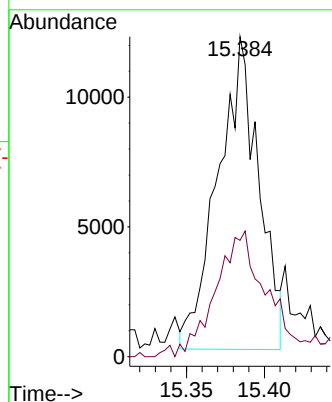
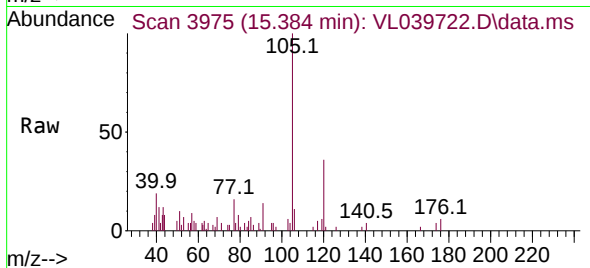
IA1DUP

Tgt Ion:105 Resp: 21841

Ion Ratio Lower Upper

105 100

120 35.2 38.2 57.4#



#74

1,2,4-Trimethylbenzene

Concen: 0.221 ppbv

RT: 16.134 min Scan# 4208

Delta R.T. -0.000 min

Lab File: VL039722.D

Acq: 17 Oct 2022 16:48

Tgt Ion:105 Resp: 56075

Ion Ratio Lower Upper

105 100

120 38.0 39.5 59.3#

91 9.3 39.2 58.8#

77 13.0 17.2 25.8#

